Curriculum Vitae

Nume **Prenume**	**NICOLAU (Dumitru)** **IOANA** 
Locul naşterii	**Bucureşti, România**
Titlul ştiinţific	**Doctor în Ştiinţe, domeniul Chimie, calificativ *Summa Cum Laude*** „Sinteza de noi inhibitori pentru enzime şi sisteme celulare enzimo-defective. Aplicaţii în biochimie şi chimia macromoleculară”
Afiliere	**Universitatea din Bucureşti, Facultatea de Chimie,** **Catedra de Chimie Organică, Biochimie si Cataliza**
Adresa	**Şos. Panduri, Nr. 90-92, sector 5, Bucureşti**
e-mail	**ioanaa.dumitru@gmail.com , ioana.nicolau@chimie.unibuc.ro**
Limbi străine cunoscute	**Franceză, engleză**
ORCID	**0000-0002-2135-0937**
Brainmap	**U-1700-039Z-2277**

Cărţi:

- *Separarea şi purificarea compuşilor organici. Lucrări practice pentrul anul I.* Ion Baciu, Cristian Dobrotă, Ioana Dumitru, Mihaela Matache, Codruţa Paraschivescu, Lavinia Ruţă, Editura Universităţii din Bucureşti, **2009**
- *Compuşi biologici activi*, C.M.Zalaru, P. Ionita, I. Zarafu, M. Marinescu, I. Nicolau, L.L. Ruta, Ed. Univ. din Bucuresti, ISBN 978-606-16-0742-6, **2016**
- *Medicamente naturale si de sinteza. Caiet de lucrari practice*, I. Zarafu, I. Nicolau, P. Ionita., Editura Universitatii Bucuresti, ISBN 978-606-16-1061-7, **2019**

Cursuri susţinute:

2019 - „Synthesis of new activity based probes. Applications in biochemistry and macromolecular chemistry” curs de Chimie Bioorganică, *Aristotle University, Department of Chemistry, Faculty of Chemical Engineering*, **Program Erasmus+ (Staff Mobility for Teaching) - Prof. Dr. Salifoglou**

Stagii în străinătate (de cercetare, burse, şcoli de vară):

- **Stagiu de predare:** Aristotle University, Department of Chemistry, Faculty of Chemical Engineering, *Program Erasmus+ (Staff Mobility for Teaching)*, în cadrul grupului condus de Prof. Dr. Salifoglou. – **iulie 2019**
- ***Scoala de vară*** “6th International Synthetic and Systems Biology Summer School” Pisa, Italia 26-29 iulie, **2019**.

- Bursă doctorală oferită de *DAAD (Der Deutsche Akademische Austauschdienst)* în cadrul proiectului *"Elaborated protein affinity and activity labels for the deconvolution of the biochemical complexity, and nanotechnology applications"*
- Stagiu de cercetare *"Sinteza de noi polimeri si dendrimeri proteici"* în cadrul Marie Curie Excellence Team, Universitatea Tehnică din Munchen, Germania, **feb - apr 2010**
- Stagiu de cercetare *"Sinteza unor noi markeri de afinitate (affinity labels) pentru cistein proteaze. Aplicatii in biochimie si chimia macromoleculara"* în cadrul Marie Curie Excellence Team, Universitatea Tehnică din Munchen, Germania, **oct 2007 - aug 2008**
- Stagiu de cercetare *"Sinteza de noi inhibitori pentru sentrin proteaze"* în cadrul Marie Curie Excellence Team, Universitatea Tehnică din Munchen, Germania, **feb. – iul. 2007**

Articole reprezentative:

1. *Convenient preparation of unsymmetrical 2,5-disubstituted 1,3,4-oxadiazoles promoted by Dess-Martin reagent*, C. Dobrotă, C.C. Paraschivescu, I Dumitru, M. Matache, I. Baciu, L.L. Ruţă, *Tetrahedron Letters*, 50 (17), **2009**, 1886, factor de impact **2.66,** doi.org/10.1016/j.tetlet.2009.02.054 *Q3*
2. *Synthesis of fused dihydro-pyrimido[4,3-d]coumarins using Biginelli multicomponent reaction as key step*, M. Matache, C. Dobrotă, N. Bogdan, I. Dumitru, L.L. Ruţă, C.C. Paraschivescu, I.C. Fărcăsanu, I. Baciu, D.P. Funeriu, *Tetrahedron*, 65 (31), **2009**, 5949, factor de impact **3.22,** doi.org/10.1016/j.tet.2009.05.088 *Q2*
3. *Protein-Inorganic Array Construction: Design and Synthesis of the Building Blocks*, N.D. Bogdan, M. Matache, V.M. Meier, C. Dobrota, I Dumitru, G.D. Roiban, D.P. Funeriu, *Chemistry - A European Journal*, 16 (7), **2010**, 2170-2180, factor de impact **5.93,** doi.org/10.1002/chem.200902649 *Q2*
4. *Expedient access to fused quinoxalines via Dess-Martin periodinane-mediated cascade cyclizations of unsymmetrical homoallylic phenylenediamides derivates*, C. Dobrota, J. Graeupner, I Dumitru, M. Matache, C.C. Paraschivescu, *Tetrahedron Letters*, 51 (9), **2010**, 1262, factor de impact **2.62,** doi.org/10.1016/j.tetlet.2009.11.080 *Q3*
5. *Iodobenzene diacetate - efficient terminal oxidant for transitional metal-mediated transformations*, I. Dumitru, *Synlett.*, 3, **2011**, 0432, factor de impact **2.71**, *unic autor* **10.1055/s-0030-1259315** *Q2*
6. *Glycine fluoromethylketones as SENPs specific activity based probes*, C. Dobrotă, D. Fasci, N.D. Hădade, G.D. Roiban, C. Pop, V.M. Meier, I. Dumitru, M. Matache, G.S. Salvesen, D.P. Funeriu, *ChemBioChem*, 13 (1), **2011**, 80-84, factor de impact **3.95,** 10.1002/cbic.201100645 *Q2*

7. *Exogenous oxidative stress induces Ca^{2+} release in the yeast Saccharomyces cerevisiae cells*, C.V. Popa, I. Dumitru, L.L Ruta, A. Danet, I.C Farcasanu, *FEBS J.*, 227 (19), **2010**, 4027, factor de impact **3.8,** 10.1111/j.1742-4658.2010.07794.x Q2
8. *Overexpression of the PHO84 gene causes heavy metal accumulation and induces Ire1p-dependent unfolded protein response (UPR) in Saccharomyces cervisiae cells*, A.M. Ofiteru, L.L. Ruta, C. Rotaru, I. Dumitru, C.D. Ene, A.D. Neagoe, I.C. Farcasanu, *Applied Microbiology and Biotechnology*, **2012**, 94(2), 425, factor de impact **3.43, 10.1007/s00253-011-3784-3** Q2
9. *The Dual Action of Epigallocatechin Gallate (EGCG), the Main Constituent of Green Tea, against the Deleterious Effects of Visible Light and Singlet Oxygen-Generating Conditions as Seen in Yeast Cells*, Mitrica R*, Dumitru I*, Ruta LL, Ofiteru AM, Farcasanu IC, *Molecules*, **2012**, 17(9), 10355-10369, factor de impact **2.39, *prim autor,*** doi.org/10.3390/molecules170910355 Q2
10. *Identification of [CuCl(acac)(tmed)], a copper(II) complex with mixed ligands, as a modulator of Cu, Zn superoxide dismutase (Sod1p) activity in yeast*, Dumitru I, Ene CD, Ofiteru AM, Paraschivescu CC, Madalan A, Baciu I, Farcasanu IC, *Journal of Biological Inorganic Chemistry***,** **2012**, 17(6), 961-974, factor de impact **3.29**, ***prim autor,*** doi.org/10.1007/s00775-012-0912-1 Q1
11. *Optical manipulation of Saccharomyces cerevisiae cells reveals that green light protection against UV irradiation is favored by low Ca^{2+} and requires intact UPR pathway*, I.C. Farcasanu, R. Mitrica, L. Cristache, I. Nicolau, L.L. Ruta, L. Paslaru, S. Comorosan, *FEBS Letters*, **2013**, 587 (21), 3514, factor de impact **3.582,** doi.org/10.1016/j.febslet.2013.09.008 *Q2*
12. *Vaccinium corymbosum L. (blueberry) extracts exhibit protective action against cadmium toxicity in Saccharomyces cerevisiae cells*, E Oprea, L.L. Ruta, I. Nicolau, C.V. Popa, A.D. Neagoe, I.C. Farcasanu, *Food Chemistry*, **2014**, 152, 516-521, factor de impact **3.334,** doi.org/10.1016/j.foodchem.2013.12.020 Q1
13. *Calcium signaling mediates the response to cadmium toxicity in Saccharomyces cerevisiae cells*, Ruta LL, Popa VC, Nicolau I, Danet AF, Iordache V, Neagoe AD, Farcasanu IC, *FEBS Letters*, **2014**, 588 (17), 3202-3212, factor de impact **3.341,** doi.org/10.1016/j.febslet.2014.07.001, *Q2*
14. *Interaction between lanthanide ions and Saccharomyces cerevisiae cells*, C.D. Ene, L.L. Ruta, I. Nicolau, C.V. Popa, V. Iordache, A.D. Neagoe, I.C. Farcasanu, *JBIC*, **2015**, 20 (7), 1097-1107, factor de impact **2.54,** doi.org/10.1007/s00775-015-1291-1, Q1
15. *Convenient synthesis of 2-alkynylbenzazoles through Sonogashira cross-coupling reaction between thioethers and terminal alkynes*, A. Paun, M. Matache, F. Enache, I. Nicolau, C.C.

Paraschivescu, P. Ionita, I. Zarafu, V.I. Parvulescu, G. Guillaumet, *Tetrahedron Lett.*, **2015**, 56, 5349, factor de impact **2.379,** doi.org/10.1016/j.tetlet.2015.08.001 *Q3*

16. *Calcium signaling and copper toxicity in Saccharomyces cerevisiae cells*, LL Ruta, CV Popa, I Nicolau, IC Farcasanu, *Environmental Science and Pollution Research*, **2016**, 23 (24), 24514-24526, factor de impact **2.76,** doi.org/10.1007/s11356-016-6666-5, *Q3*
17. *Anchoring plant metallothioneins to the inner face of the plasma membrane of S. cerevisiae cells leads to heavy metal accumulation*, Ruta LL, Lin YF, Kissen R, Nicolau I, Neagoe AD, Ghenea S, Bones AM, Farcasanu IC, *Plos One*, **2017**, 12(5), factor de impact **3.234,** 10.1371/journal.pone.0178393 Q2
18. *Heavy metal accumulation by S. cerevisiae cells armed with metal bindng hexapeptides targeted to the inner face of the plasma membrane*, Ruta LL, Kissen R, Nicolau I, Neagoe AD, Petrescu AJ, Bones AM, Farcasanu IC, *Applied Microbiology and Biotechnology*, **2017**, 1-15, factor de impact 3.42, 10.1007/s00253-017-8335-0 Q2
19. *Epigallocatechin-3- O -gallate, the main green tea component, is toxic to Saccharomyces cerevisiae cells lacking the Fet3/Ftr1*, Ruta LL, Popa CV, Nicolau I, Farcasanu IC, *Food Chemistry*, **2018,** 266, factor de impact **4.946,** 10.1016/j.foodchem.2018.06.029 Q1
20. *Manganese suppresses the haploinsufficiency of heterozygous trpy1/TRPY1 S. Cerevisiae cells and stimulates the TRPY1-dependent release of vacuolar* Ca^{2+} *under* H_2O_2 *stress*, Ruta LL, Nicolau I, Popa CV, Farcasanu IC, *Cells*, **2019**, 8, 79, factor de impact **4.829,** doi.org/10.3390/cells8020079 Q2
21. *Synthesis, Characterization, and Biologic Activity of New Acyl Hydrazides and 1, 3, 4-Oxadiazole Derivatives*, I. Zarafu, L. Matei, C. Bleotu, P. Ionita, A. Tatibouët, A. Păun, I Nicolau, A. Hanganu, C.Limban, DC Nuta, RM Nemes, CC Diaconu, C. Radulescu, *Molecules*, **2020**, 25 (14), 3308, factor de impact **3.589,** doi.org/10.3390/molecules25143308 Q2
22. *Contribution of essential oils to the fight against microbial biofilms*, I. Zarafu, I. Nicolau, P. Ionita, T. Costea, M.C. Chifiriuc, C. Chirita, C Limban, D.C. Nuta, *Processes*, **2021**, 9(3), 537, factor de impact **3.046,** doi.org/10.3390/pr9030537 Q3
23. *Enantiomeric Pairs of Copper(II) Complexes with Tridentate Schiff Bases Derived from R and S-Methionine: Role of Decorating Organic Groups of the Ligand in Crystal Packing and Biological Activity*, Maxim, C; Ene, C D.; Nicolau, I; Ruta, L; Farcasanu, I, *Dalton Transactions*, **2022,** 51**,** 18383-18399 – factor de impact **4.569,** doi.org/10.1039/D2DT02620A Q1
24. *Synthetic approaches of epoxysuccinate chemical probes*, I. Nicolau, N.D. Hadade, M. Matache, D.P. Funeriu, *ChemBioChem*, **2023**, factor de impact **3.468, *prim autor,*** doi.org/10.1002/cbic.202300157 Q2
25. *Solid-Phase Peptide Synthesis – evaluation of resin loading and preparation of an amide C-terminal dipeptide*, Nicolau, I; Paun, A; Popescu, C; Hădade, N, Matache, M; *The Journal of*

*Chemical Education***, 2023,** 100 (6) 2430–2434, factor de impact **3.35, *prim autor,*** doi.org/10.1021/acs.jchemed.3c00186 Q3

26. *A Synthetic Approach for Oxadiazole-Decorated Azobenzene Photoswitches*, Adela F. Dobre, Dr. Anamaria Hanganu, Dr. Ioana Nicolau, Dr. Codruta C. Popescu, Dr. Anca Paun, Dr. Augustin M. Mădălan, Dr. Cristina Tablet, Dr. Anca G. Mirea, Dr. Mihaela Matache, *ChemPlusChem*, **2023**, factor de impact **3.21**, ***prim autor***, doi.org/10.1002/cplu.202300504 Q2

Factor de impact cumulat **86,6, citari** acumulate **392 (fara autocitari)**, **factor hirsh 13 (conform SCOPUS)**

15 galben (56%), 5 rosii (20%), gri 6 (24%)

Proiecte de cercetare naţionale şi internaţionale:

- PNRR-III-C9-2022 – I8: "Novel probes for dissecting the cellular roles of lipids", membru în echipa de cercetare
- PNRR-III-C9-2022-I10 "Înființarea și susținerea financiară a unei rețele naționale de opt centre regionale de orientare în carieră ca parte a ERA TALENT PLATFORM", membru în echipa de implementare
- 2018-2019 GreenChemBioPep, Romania-China grants – ***proiect international,*** membru în echipa de cercetare
- 2014-2017 EEA-JRP-RO-NO-2013-1-0047 "Engineering Yeast and Plants for Heavy Metal Applications: from Bioremediation to Bioextraction" - membru în echipa de cercetare – ***proiect international,*** membru în echipa de cercetare
- 2009-2010 Grantul Marie Curie Excellence Team, Universitatea Tehnică din Munchen, EXT Grant 25085, IRG Grant 46519 (ALTMORG), cel mai competitiv program de finanţare al cercetării al UE - membru în echipa de cercetare - ***proiect international***
- POSDRU/89/1.5/S/60746 – membru în echipa de cercetare- ***proiect international***
- 2014-2016 PN-II-PT-PCCA-2013-4-0291 "Noi modulatori ai proceselor reglate de calciu evidențiați prin screeninguri genomice și chemo-genomice"- membru în echipa de cercetare
- 2014-2016 PN-II-PT-PCCA-2013-4-1390 " Structura ADN microarray pe siliciu nanostructurat pentru detectia agentilor patogeni responsabili de bolile cu transmitere sexuala si a genelor specifice rezistentei la antibiotice asociate" - membru în echipa de cercetare
- 2011-2014 PN-II-PT-PCCA „Micro immunosensors platform for metabolic syndrome investigation" – membru în echipa de cercetare.

- 2011-2014 PN – II-ID-PCE „Multifunctional organic stable radicals in supramolecular high-spin architecture and materials" – membru în echipa de cercetare.
- Proiect CIVIS-Open Lab-UB Laboratorul călător CIVIS Nr.612648 din cadrul programului Erasmus+ Programme Call European Universities 2019 EAC-A03-2018-noe 2021-iunie 2022 valoare 2021: 3.300euro valoare 2022: 1400 euro, membru în echipa

Conferinţe internaţionale:

1. *Design and synthesis of activity-based probes for the SENPs enzyme family*, Dobrotă Cristian, Bogdan Niculina, Dumitru Ioana, Funeriu Daniel, **2nd EuCheMS Chemistry Congress**, poster, *Torino,* Italia, 16-20 septembrie **2008**
2. *New elaborated activity-based probes for nanotechnology applications,* Matache Mihaela, Bogdan Niculina, Dumitru Ioana, Funeriu Daniel, **2nd EuCheMS Chemistry Congress**, poster, *Torino,* Italia, 16-20 septembrie **2008**
3. *Synthesis and antimicrobial activity of some new 3-nitro-and 3,6-dinitro-coumarin derivatives*, Stan Dana, Paraschivescu Codruţa, Ruţă Lavinia, Matache Mihaela, Dumitru Ioana, Savin Mihaela, Baciu Ion, **2nd EuCheMS Chemistry Congress**, poster, *Torino,* Italia, 16-20 septembrie **2008**
4. *Synthesis and antimicrobial, antiviral and antioxidant evaluation of new benzyl ester 3,4-dihydropyrimidine-2(1h)-ones***,** Matache Mihaela, Dobrota Cristian, Fărcăşanu Ileana, Ruţă Lavinia, Paraschivescu Codruţa, Dumitru Ioana, Baciu Ion, **2nd EuCheMS Chemistry Congress**, poster, *Torino,* Italia, 16-20 septembrie **2008**
5. *Synthesis of new selective estrogen receptor modulators (SERMs),* Codruta C. Paraschivescu, Niculina Bogdan, Mihaela Matache, Cristina M. Nedelcu, Corina Chiric, Lavinia L. Ruta, Ioana Dumitru, Ileana C. Farcasanu, Daniel P. Funeriu, **7th International Conference of Chemical Societies from South-East European Countries on"Chemistry – Beauty and Application"**, poster, *Bucuresti*, 15-17 septembrie **2010**
6. *The use of chemical protein functionalization technique for the synthesis of new protein-based polymers,* Ioana Dumitru, Mihaela Matache, Niculina D. Bogdan, Ion Baciu, Daniel P. Funeriu, **2nd International Colloquim on "Physics of Materials"**, poster, *Bucuresti,* 7-9 octombrie **2010**
7. *Sensing the Superoxide Dismutase-Mimetic Activity of Cu(II) Complex Compounds Using Cells That Lack Cu/Zn-Superoxide Dismutase (SOD1p)* (Oral Presentation) – Cristian D. Ene, Codruta C. Paraschivescu, Ioana Dumitru, Augustin M. Madalan, Ileana C. Farcasanu, **The Annual International Conference of the Romanian Society of Biochemistry and Molecular Biology (RSBMB) & The Conference on "Cellular and Molecular Biotechnologies on Medical Applications**", 28-30 septembrie **2011**, *Craiova*, Romania.
8. *Identification of [CuCl(acac)(tmed)], a copper(II) complex with mixed ligands, as a modulator for Cu-Zn superoxide dismutase (Sod1p) activity in yeast* (Poster) – Cristian-Dumitru Ene, Augustin-Minel Ofiteru, Ioana Dumitru, Ileana-Cornelia Farcasanu, **10eme**

Rencontre des Levuristes Francophones - Levures, Modèles & Outils, 2-4 aprilie **2012**, *Toulouse*, France.

8. *Synthese et caracterisation des polyradicaux stables,* I. Zarafu, A. Paun, G. Ionita, M. Marinescu, C. Zalaru, I. Dumitru, P. Ionita, Le septième Colloque Franco-Roumain de Chimie Appliquée COFrRoCA, **2012**, *Bacau*, Romania
9. *Synthesis and study of biological activity of new tricyclic β-cyclocetols derivatives starting from 4-aminoantipyrine*, I. Zarafu**,** A. Paun, M. Multescu, I. Dumitru, G. Ionita, M. Maganu, C. Draghici, I. Farcasanu, P. Ionita, **A XXXII-a Conferinţă Naţională de Chimie**, 03-05 octombrie **2012**, Căciulata-Ramnicu-Valcea, Romania
10. *Study of structure-biological activity relationship of several benzocaine derivatives,* I. Zarafu, A. Paun, M.T. Caproiu, I. Dumitru, C. Zalaru, M. Marinescu, P. Ionita**,** ***ICOSECS,*** 27-29 iunie **2013**, Belgrad, Serbia.
11. *Copper(II) Complexes of Chiral Schiff Bases - from Coordination Building-Blocks to Biological Interactors* (Poster) - Cristian D. Ene, Catalin Maxim, Ioana Nicolau, Ileana C. Farcasanu, **Le congrès annuel Gecom Concoord**, 18-23 mai **2014**, *Vers*, France.
12. *Interaction between Ln3+ and Saccharomyces cerevisiae cells* (Poster) **-** Ioana Nicolau, Cristian D. Ene, Claudia V. Popa, Ileana C. Farcasanu**, 27th International Conference on Yeast Genetics and Molecular Biology**, 6-11 septembrie **2015**, *Levico Terme, Trentino,* Italy.
13. *Calcium signaling mediates the response to copper toxicity in Saccharomyces cerevisiae cells,* L.L. Ruta, I. Nicolau, I. C. Farcasanu**, 27th International Conference on Yeast Genetics and Molecular Biology**, 6-11 septembrie **2015**, *Levico Terme, Trentino,* Italy.
14. *Targeting Metal-Binding Oligopeptides to the Inner Face of Plasma Membrane in Saccharoyces cerevisiae Cells* (Poster) – I. C. Farcasanu, L. L. Ruta, I. Nicolau, A. D. Neagoe, **International Specialized Symposium on Yeasts (ISSY)**, 13 -17 septembrie **2015**, Perugia, Italy
15. *New 1,3,4-oxadiazole-based building blocks for OLEDs through Sonogashira couplings* A. Paun, M. Matache, C. Paraschivescu, I. Nicolau, V. Parvulescu, **6th EuCheMS Chemistry Congress**, short oral abstract, 11-15 septembrie **2016**, *Sevilla*, Spania
16. *Molecular aspects of Ln3+ toxicity revealed through a genome-wide screen in Saccharomyces cerevisiae*, Ruta LL, Ene CD, Nicolau I, Neagoe AD, Farcasanu IC , ***PYFF6*** - 6th Conference on Physiology of Yeasts and Filamentous Fungi, Lisabon, Portugal, 10-15 July **2016**
17. *Thioorganic heterocycles in coupling reactions*, A. Paun, M. Matache, C. C. Paraschivescu, I. Nicolau, V. Parvulescu, ***18th Tetrahedron Symposium***, **Budapesta**, Ungaria, 27-30 iunie **2017**, prezentare orala
18. *Novel heterocyclic-based luminophores: tuning of optical properties by structural diversification* (Poster) – A Paun, A Coman, A Purcarea, C Popescu, I Nicolau, M Matache, **7'th EuCheMS Chemistry Congress**, 26-30 august **2018**, *Liverpool*, UK
19. *Synthesis, electrochemical and biological studies of new isoniazid derivatives*, Bala D, Nicolau I, Chifiriuc C, Popa M, Limban C, Nuță DC, Ioniță PI, Zarafu I. **ICOSECS,** 8-11 mai **2019**, Târgoviște, Romania.

20. *The synthesis of new 4-aminoantipyrine derivatives and the studies of their electrochemical properties*, Bala D, Nicolau I, Ioniță PI, Zarafu I., **ICOSECS**, 8-11 mai **2019**, Târgoviște, Romania.
21. *Biological activity of organic functionalized graphene-oxide with pyridine derivatives*, Zarafu I, Nicolau I, Chifiriuc C, Popa M, Limban C, Nuță DC, Rădulescu C, Dulamă ID, Ioniță P. **ICOSECS** 8-11 mai **2019**, Târgoviște, Romania.
22. *Synthesis, crystal structure and biological activity of 2-hydroxy-8-substituted-tricyclo [7.3.1.02.7] tridec-13-ones,* Zarafu I, Nicolau I, Sârbu EM, Chifiriuc C, Măruțescu L, Ioniță P, Ferbințeanu M., **ICOSECS** 8-11 mai **2019**, Târgoviște, Romania.
23. *Synthesis of polyaryl compounds using the Suzuki Coupling reaction in aqueous medium*, Alexia Francu, Anca Coman, Anca Paun, Codruta Popescu, Nicolau Ioana, Matache Mihaela, **ICOSECS** 8-11 mai **2019**, Târgoviște, Romania
24. *Biological Studies of Organic Functionalized Graphene-Oxide with Amines Derivatives of Pyrimidine,* Zarafu I, Nicolau I, Chifiriuc C, Popa M, Limban L, Nuță DC, Rădulescu C, Dulamă ID, Ioniță P., **RICCE** 4-7 sept **2019**, Mamaia, Romania.
25. *Functionalized Graphene-Oxide,* Petre I, Nicolau I, Păun A, Culiță D, Chifiriuc C, Zarafu I. Crown-Ether, **RICCE** 4-7 sept **2019**, Mamaia, Romania.
26. *Challenges and Approaches in the Synthesis of Novel Azoheteroaryl-Based Compounds Containing Oxa(thia)diazole Moieties,* Codruta C. Badescu-Singureanu, Laura E. Paladache, Ioana Nicolau, Anca Paun, Mihaela Matache, Codruta C Popescu, **21st Tetrahedron Symposium**, 21-24 June **2021**
27. *Design and synthesis of protein-based (supra/macro)molecular constructs using small-molecule selective chemical probes*, Mihaela Matache, Niculina Hadade, Adela Dobre, Codruta Badescu-Singureanu, Ioana Nicolau, **International Conference on Polymer Chemistry,** 18-19 August **2022**, Zagreb, Croatia
28. *Synthesis of novel heterocyclic systems via N-N bond formation mediated by hypervalent iodine agent*, M. Popescu, M. Matache, A. Paun, I. Nicolau, C.C. Popescu, ***International Conference "Students for students"*** (ICSFS XVIIIth edition), (6-10 April 2022, Cluj-Napoca)
29. *Sulfamides covalently functionalized graphene oxide as antibacterial material*, A-I. Mușat, P. Ionita, A. Tatibouet, C. Limban, D. Nuță, L. Măruțescu, C. Chifiriuc, C. Rădulescu, I. Nicolau, I. Zarafu, ***Conferinta Nationala de Chimie XXXVI*** (5-7 Octombrie 2022, Calimanesti, Romania), Prezentare poster
30. *Synthesis of new 1,2,4-thiadiazoles derivatives of ferrocene with potential biological activity*, A-M. Fulgheci, P. Ionita, C. Limban, D. Nuță, L. Măruțescu, C. Chifiriuc, I. Nicolau, A. Hanganu, I. Zarafu, ***Conferinta Nationala de Chimie XXXVI*** (5-7 Octombrie 2022, Calimanesti, Romania), Prezentare poster
31. *Study of the antimicrobial activity of some ferrocene derivatives*, A-M. Fulgheci, I. Nicolau, P. Ioniță, D. C. Nuță, L. Măruțescu, C. Limban, C. Chifiriuc, I. Zarafu, ***International Symposium "The Environment and the Industry***", Simi 2022 (29 Septembrie, Bucharest, Romania), Prezentare poster

32. *Zwitterion or diradicaloid? Diazenium betaines derived from DPPH,* A. Dobre, M. Matache, A. Hanganu, C. Popescu, A. Păun, I. Nicolau, I. Petre***8 th EuChemS Chemistry Congress***, 27 August-1 September 2022, Lisbon, Portugal (prezentare poster)

33. *Exploring photoswitching capacity of novel azo compounds decorated with oxadiazole moieties,* A.F. Dobre, M. Matache, A. Hanganu, C. Popescu, A. Paun, I. Nicolau, BOSS XVII, ***17th Belgian Organic Synthesis Symposium***, 3-8 July, 2022 Namur, Belgium, (prezentare poster)

34. *Exploring novel azo compounds as molecular photoswitches,* M. Matache, B.C. Enache, A.F. Dobre, A. Hanganu, C.C. Popescu, A. Paun, I. Nicolau, ***8 th EuChemS Chemistry Congress***, 27th August-1 st September, 2022, Lisbon, Portugal (prezentare poster)

35. Novel DPPH-based compounds with redox properties, A.F. Dobre, M. Matache, A. Hanganu, C. Popescu, A. Păun, I. Nicolau, P. Ionita, ***8 th EuChemS Chemistry Congress***, 27th August-1 st September, 2022, Lisbon, Portugal (prezentare poster)

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40. *Design and synthesis of protein-based (supra/macro)molecular constructs using small-molecule selective chemical probes*, Ioana Nicolau*[1], Mihaela Matache[1], Niculina Hadade[2], Adela Dobre[1], Codruta C. Badescu-Singureanu, ***11th International RAD Conference***, 19-13 June 2023, Herceg Novi, Muntenegru

Atestate//Diplome:

- **Atestat de limba germană** eliberat de către *DID (Deutsch-Institut)*, Frankfurt, Germania, **2008**
- **Atestat de limba franceză** eliberat de *Ambasada Franţei în România,* la absolvirea masterului «Synthèse, structure, réactivité - appliquées au médicament» **2007**
- **Atestat de limba franceză** eliberat de *Ambasada Franţei în România,* la absolvirea secţiei Chimie în limba franceză, **2005**

- **Diploma de Doctor in Stiinte**, domeniul Chimie, calificativul *Summa Cum Laude* pentru teza intitulată ‘Sinteza de noi inhibitori pentru enzime şi sisteme celulare enzimo-defective. Aplicaţii în biochimie şi chimia macromoleculară’, **2012**

Competenţe: tehnici avansate legate de sinteza organică totală, sinteză în mediu inert, sinteză peptidică pe suport solid, tehnici de investigare structurală prin UV-VIS, IR, RMN, ESI-MS, MALDI- MS, sinteză de sonde de activitate, tehnici de sinteză de polimeri şi dendrimeri proteici, tehnici legate de testele de inhibiţie enzimatică, biologie celulară, electroforeză şi analize PCR.

Cod ORCID: 0000-0002-2135-0937
Cod brainmap: **U-1700-039Z-2277**

Semnatura: